

1 **STRUCTURE REMOVAL BY EXPLOSIVES**  
2 **April 3, 1989**

3 **Construction Requirements**

4 If the Contractor elects to use explosives to accomplish any or all of the removal  
5 work, the Contractor shall comply with the requirements of Section 1-07.22, submit a  
6 detailed blasting plan to the Engineer for approval, and obtain permits and approvals  
7 from the applicable governmental agencies. All work shall be accomplished in  
8 accordance with the terms of the permits.

9  
10 A licensed, experienced explosives expert shall supervise the drilling, loading, and  
11 blasting operations. Traffic shall not be allowed in the vicinity during blasting  
12 operations. The Contractor shall be responsible for all damage to public and private  
13 property caused by the use of explosives. Damage shall be repaired, as a first order  
14 of work, by the Contractor at the Contractor's expense. The repair shall be as  
15 directed by the Engineer.

16  
17 The blasting plan shall show all stages of the removal work; the explosive type; the  
18 explosive quantity; firing sequence; details of drill holes; explosive placement; detail  
19 of how shock waves are kept to a minimum; and how debris is controlled. The  
20 blasting plan shall also list the name and address of the licensed explosives expert,  
21 safety procedures (including methods of storage and transportation), warning  
22 signals, signs, accidental discharge prevention safeguards, and the procedures for  
23 notifying the Engineer of impending blasting.

24  
25 Any drawings required as part of the blasting plan shall be on sheets measuring 8  
26 1/2 by 11 inches, 11 by 17 inches or 24 by 36 inches. The blasting plan shall be  
27 submitted far enough in advance of actual need to allow for the review process by  
28 the State, which may involve rejection, revision, or resubmittal. Unless otherwise  
29 stated in the contract, the Engineer will require up to 30 calendar days from the date  
30 the submittals are received until they are sent to the Contractor. This time will  
31 increase if the drawings submitted do not meet the contract requirements or contain  
32 insufficient details.

33  
34 If more than 30 calendar days are required for the Engineer's review of any individual  
35 submittal or resubmittal, an extension of time will be considered in accordance with  
36 Section 1-08.8.

37  
38 The Contractor shall obtain the Engineer's written approval of the drawings before  
39 proceeding with the work they represent. This approval shall neither confer upon the  
40 State nor relieve the Contractor of any liability of damage caused by the use of  
41 explosives. The Contractor shall bear all risk and all costs of any work delays  
42 caused by nonapproval of these drawings or plans.

43  
44 **Payment**

45 The lump sum contract price for \*\*\* \$\$1\$\$ \*\*\* shall be full pay for performing the  
46 work as specified.